

**MATERIAL SAFETY DATA SHEET - ZOECON® ALTOSID® LIQUID LARVICIDE CONCENTRATE****Manufacturer:** Wellmark International

Address: 1000 Tower lane, Suite 245, Bensenville, Illinois 60106

Emergency Phone: 1-800-248-7763

**Transportation Emergency Phone:** CHEMTREC: 1-800-424-9300**1. CHEMICAL PRODUCT INFORMATION**Product **Name:** Zoecon® Altosid® liquid Larvicide Concentrate

Cbemkal Name/Synonym: (S)-Methoprene; isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate

Cbemkal Family: Terpenoid

Formula: C<sub>19</sub>H<sub>34</sub>O<sub>3</sub>

EPA Registration No.: 2724-446

RF Number: 437

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Component (chemical, common name)</b>	<b>NA S m b e r</b>	<b>Weight</b>	<b>Tolerance</b>
(S)-Methoprene; ikopropyl (2E,4E,7S)-11-Methoxy-3,7 11-trimethyl-2,4-dodecadienoate	65733-16-6	20.0%	Not established
Inert ingredients (non-hazardous and/or trade secret)		80.0%	N/A

**3. HAZARD INFORMATIC****PRECAUTIONARY STATEMENT**

CAUTION: CAUSES **MODERATE** EYE IRRITATION. AVOID **CONTACT** WITH EYES OR CLOTHING. WASH THOROUGHLY WITH SOAP AND WATER AFTER **HANDLING**. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE **ALLERGIC REACTIONS** IN SOME INDIVIDUALS.

SIGNS AND SYMPTOMS OF **OVEREXPOSURE:** No cdverse reactions have resulted from normal human exposure during research and testing.PRIMARY ROUTE OF ENTRY **Dermal/Eye:** Yes **Oral:** No **Inhalation:** No

ACUTE TOXICITY

Oral: LD<sub>50</sub> (rat): >5,000 mg/kg (highest dose tested) (HDT)  
(Based on (S)-Methoprene)Dermal: LD<sub>50</sub> (rabbit): >2,000 mg/kg (highest dose tested) (HDT)  
(Based on (S)-Methoprene)Inhalation: LC<sub>50</sub> (rat): >5.2 mg/L air (4 hour study)**OTHER TOXICOLOGICAL INFORMATION**Skin **Irritation:** Non-irritating (rabbit)  
(Based on (S)-Methoprene)Eye Irritatiea: Practically non-irritating (rabbit)  
(Based on (S)-Methoprene)Sensitizer: Not a sensitizer (guinea pig)  
(Based an (RS)-Methoprene)**Eye:** Immediately flush with copious amounts of water for at least 15 minutes. See a physician if irritation **persists**.**Skin:** Wash material off with copious amounts of water and **soap**. Remove contaminated clothing and footwear. See a physician if symptoms persist.**Ingestion:** Drink 1-2 glasses of water ond try to induce vomiting. Seek medical attention. Never give anything by mouth to an **unconscious** person.**Inhalation:** Remove victim to fresh air. See o physician if cough or other respiratory symptoms develop.

Note to Physician: Treat symptomatically

**5. FIRE FIGHTING MEASURES**NFPA Rating: **Health:** 0 **Fire:** 0 **Reactivity:** 0

Flammability Class: Combustible liquid

Flask **Point:** Does not flosch

Explosive limits (% of Volume): None

**Extinguishing Media:** Water, Foam, CO<sub>2</sub>Special Protective **Equipment:** Firefighters should **wear** full protective clothing and self-contained breathing apparatus.Fire **Fighting Procedures:** Normal procedures. Do not allow fire fighting water to escape into waterways or sewers.**Combustion Products:** Carbon monoxide, carbon dioxide**Unusual Fire/Explosion Hazards:** None**6. ACCIDENTAL RELEASE MEASURES**Steps to be Taken: In case of leakage or spill, **soak** up with **absorbent** material. Place in a container for disposal.

Absorbents: Clay granules, sawdust, dirt or equivalent.

latompatibles: None

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling  
**Storage:** Store in a cool, dry place, away from other pesticides, food and feed.

## 8. EXPOSURE CONTROL/PERSONAL MEASURES

**Exposure Limits:** Not established

**Ventilation:** Use with adequate ventilation.

**Personal Protective Equipment:** Under ordinary use conditions, no special protection is required. If prolonged exposure is expected, it is recommended to wear a MSHA/NIOSH approved organic vapor/Pesticide respirator, impervious gloves, chemical goggles or safety glasses with side shields.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Creamy, yellow liquid with slight odor.

**Boiling Point:** 100°C

**Melting Point:** Not applicable

**Vapor Pressure (mm Hg):** 17.5 mm Hg

**Vapor Density (Air = 1):** 0.6 (water phase)

**Specific Gravity:** 1.04 1.06

**Bulk Density:** 8.3 lbs/gal

**Solubility:** Disperses in water

**Evaporation Rate:** Approximately 0.8

**pH:** 7.5

**Stability:** Stable

**Reactivity:** Non-reactive

**Incompatibility with**

**Other Materials:** Bleach, oxidizing/alkaline materials

**Decomposition Products:** None

**Hazardous Polymerization:** Will not occur

## CHRONIC TOXICITY [Based on (RS)-Methoprene]

Methoprene is not considered as an oncogenic compound. The NOEL for noncarcinogenic effects in an 18 month mouse study was 250 ppm.

## DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Based on (RS)-Methoprene]

Methoprene is not a teratogenic compound. The NOEL for maternal and embryotoxicity in rabbits was 200 mg/kg/day. The NOEL for reproductive effects in rat was 500 ppm.

## MUTAGENICITY [Based on (RS)-Methoprene]

Methoprene is not a mutagenic compound.

## 12. ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE [Based on (RS)-Methoprene]

**Hydrolysis:** T<sub>1/2</sub> > 4 weeks

**Photolysis:** T<sub>1/2</sub> < 10 hours

**Soil half life:** ~10 days

**Water solubility:** < 2 ppm

### ECOTOXICITY [Based on (S)-Methoprene]

**Acute Toxicity:** fish: LC<sub>50</sub> (trout): 760 ppb, (bluegill): >370 ppb  
aquatic invertebrates: LC<sub>50</sub> (Daphnia): 360 ppb

## 13. DISPOSAL CONSIDERATIONS

Wastes resulting from this product may be disposed of on site or at an approved waste management facility. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**DOT49CFR Description:** Not regulated as hazardous by D.O.T.

**Freight Classification:** Insecticides, NOI other than poison in boxes or drums. NMFC 102120

## 15. REGULATORY INFORMATION

**CERCLA (Superfund):** Not regulated

**RCRA:** Not regulated as hazardous

### SARA 311/312 HAZARD CATEGORIES

**Immediate Health:** Yes (irritation)

**Delayed Health:** No

**Fire:** No

**Sudden Pressure:** No

**Reactivity:** No

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.